

APPENDIX B - AGENDA

CHALLENGES IN URBAN METEOROLOGY: A FORUM FOR USERS AND PROVIDERS

September 21–23, 2004

Doubletree Hotel & Executive Meeting Center
1750 Rockville Pike
Rockville MD 20852

*Theme: Information to Improve Community Responses to Urban Atmospheric
Hazards, Weather Events, and Climate*

Scope/Impact: Nearly two-thirds of the U.S. population lives in urban areas occupying less than two percent of the U.S. landmass. America's vulnerability to severe weather, homeland security incidents, and risks from air and water quality and climatic variations are rising as more of the population moves into areas prone to these hazards.

- \$11 billion in damages per year occur from hurricanes, tornadoes, floods and other severe weather.
- Adverse weather adds to the cost of highway congestion, which now averages \$78 billion a year in lost time and wasted fuel.
- Emergency response plans require real-time decisions about evacuations affecting thousands of households in a single incident.

To manage these and other risks to public safety, health, and property, urban leaders and managers need more accurate and specific weather information as input to their decision processes.

AGENDA

Tuesday, September 21

7:30–8:30 a.m.

Continental Breakfast

8:30–8:45 a.m.

Mr. Samuel P. Williamson, Federal Coordinator for Meteorological
Services and Supporting Research
Opening Remarks

8:45–9:05 a.m.

Dr. Kathie Olsen, Associate Director for Science, Office of Science and
Technology Policy
*Policy, Science, and Partnership Issues for the Complex Urban
Environment*

9:05–9:20 a.m.

Ms. Nancy Suski, Director, Emergency Preparedness and Response
Portfolio, Science and Technology Directorate, U.S. Department of
Homeland
Security
Homeland Security Needs in Urban Meteorology

9:20–9:35 a.m.

Mr. Eric Webster, Majority Staff Director, House Science
Subcommittee on Environment, Technology and Standards
A Congressional Perspective on Urban Meteorology

9:35–9:50 a.m.

Dr. Ronald D. McPherson, Executive Director, American
Meteorological Society
*Perspectives on Interdisciplinary Scope and Approaches to Urban
Meteorology*

Tuesday, September 21—continued

- 9:50–10:05 a.m. **Dr. Gilbert Brunet**, A/Director, Meteorological Research,
Meteorological Services of Canada
*The Regional and Urban Numerical Weather Prediction and Operational
Long Range Plan for the Meteorological Service of Canada*
- 10:05–10:35 a.m. **Break**
- 10:35 a.m.–12:05 p.m. **Panel 1:** Safety, Health, and Economic Impacts of Weather and Climate
in the Urban Environment
Panelists
 Dr. John A. Dutton, Professor Emeritus of Meteorology and Dean
 Emeritus
 College of Earth and Mineral Sciences, The Pennsylvania State
 University (*Co-moderator*)
 Mr. Ray Ban, Executive Vice President of Meteorology Science and
 Strategy, The Weather Channel (*Co-moderator*)
 Dr. John Hayes, NOAA/NWS
 Dr. Josephine Malilay, CDC
 Mr. Richard Carbone, NCAR
 Dr. Sharon LeDuc, NOAA/NESDIS/NCDC
- 12:05–1:30 p.m. **Lunch**
- 1:30–3:00 p.m. **Panel 2:** Regional Ecosystem Approaches to Urban Environmental
Hazard Management
Panelists
 Dr. Douglas DeMaster, NOAA/NMFS (*Co-moderator*)
 Dr. Laurence S. Kalkstein, Senior Research Fellow, Center for
 Climatic Research, University of Delaware (*Co-moderator*)
 Mr. Leroy Spayd, NOAA/NWS Meteorological Services Division
 Mr. Allan Stahl, Natural Resource Conservation Service/USDA
 Dr. Eugene Stakhiv, Institute for Water Resources/USACE
 Dr. Sue Grimmond, International Association for Urban Climate
- 3:00–3:30 p.m. **Break**
- 3:30–5:00 p.m. **Panel 3:** Adequacy of Urban Weather Observations
Panelists
 Dr. Rayford P. Hosker, Jr., NOAA/OAR (*Co-moderator*)
 Dr. Ken Crawford, Oklahoma State Climatologist (*Co-moderator*)
 Dr. Walter Dabberdt, Vaisala
 Mr. Richard Fry, DTRA
 Dr. Jan Dutton, AWS Weather Bug
 Dr. John McGinley, NOAA/Forecast Systems Laboratory
- 5:00–5:10 p.m. Administrative Remarks Ms. Erin McNamara, OFCM
Conference Coordinator for Logistics
- 5:10 p.m. **Adjourn Day 1 session**
OFCM Staff Meeting
- 5:30 p.m. Icebreaker

Wednesday, September 22

- 7:00–8:00 a.m. **Continental Breakfast**
- 8:00–8:05 a.m. Administrative and Logistical Remarks Ms. Erin McNamara, OFCM
Conference Coordinator for Logistics
- 8:05–9:35 a.m. **Panel 4: Research and Development for Urban Weather and Climate Applications**
Panelists
Dr. Alexander MacDonald, Director, NOAA Forecast Systems Laboratory, (*Co-moderator*)
Dr. J. Marshall Shepherd, Research Meteorologist, Laboratory for Atmospheres, NASA-Goddard Space Flight Center (*Co-moderator*)
Dr. Robert Bornstein, San Jose State University
Dr. Lloyd A. Treinish, IBM Thomas J. Watson Research Center
Ms. Teresa Lustig, DHS, Science and Technology Directorate
Mr. David Williams, EPA/Office of Research and Development/
Environmental Sciences Division
- 9:35–10:05 a.m. **Break**
- 10:05–11:35 a.m. **Panel 5: Managing Risk in the Urban Environment**
Panelists
Mr. Harvey Ryland, President and CEO, Institute for Business and Home Safety (*Co-moderator*)
Ms. Margaret Davidson, Director, NOAA Coastal Services Center (*Co-moderator*)
Mr. Ranger Dorn, Battalion Chief, Ventura Co. Fire Department
Mr. John Gambel, DHS/FEMA
Ms. Janet Anderson, USDA Forest Service/Fire and Aviation Management
Mr. Jim Cook, Emergency Manager, Atlanta, Georgia
- 11:35 –11:55 a.m. **Dr. Walter D. Bach, Jr.**, Program Manager, Environmental Sciences Division, Engineering Sciences Directorate, U.S. Army Research Office
Summary of the Report, “Federal Research and Development Needs and Priorities for Atmospheric Transport and Diffusion Modeling”
- 11:55 a.m.–1:05 p.m. **Luncheon Session with Dr. James R. Mahoney**, Assistant Secretary of Commerce for Oceans and Atmosphere and NOAA Deputy Administrator
Delivering Improved Weather and Climate Services for the Urban Zone
- 1:05–1:30 p.m. **Transition to Workshop Sessions**
- 1:30–3:00 p.m. Concurrent Workshop Sessions 1A and 1B
- Workshop Session 1A**
How to Improve the Content of Weather Observations to Meet Modeling and Operational Needs for Urban Areas
Workshop co-chairs
Dr. Stephen Lord, NOAA/NCEP
Col. Mark Weadon, Air Force Weather Deputy for Federal Programs/ NOAA

Wednesday, September 22—continued

Workshop Session 1B

Understanding the Needs of Urban Communities and Businesses

Workshop co-chairs

Dr. Betty Hearn Morrow, Consultant and Professor of Sociology,
Emeritus, Florida International University

Dr. Walter Maestri, Jefferson Parish, Louisiana Emergency
Management

3:00–3:30 p.m.

Break

3:30–5:00 p.m.

Concurrent Workshop Sessions 2A and 2B

Workshop Session 2A

Measurement Strategies for the Urban Weather and Climate
Domains (sensors, data collection, transmission, archiving, etc.)

Workshop co-chairs

Mr. Richard Fry, Defense Threat Reduction Agency

Dr. Sharon LeDuc, Deputy Director, NOAA/NESDIS/NCDC

Workshop Session 2B

R&D Needs for Ecosystem Approaches to Urban Health and
Environmental Issues

Workshop co-chairs

Dr. Douglas DeMaster, NOAA/NMFS

Dr. John R. Scala, Millersville University

5:00–5:10 p.m.

Administrative Information
Provided to Workshops

Ms. Erin McNamara, OFCM
Conference Coordinator for Logistics

5:10 p.m.

Adjourn Day 2 session
OFCM Staff Meeting

Thursday, September 23

7:00–8:00 a.m.

Continental Breakfast

8:00–9:30 a.m.

Concurrent Workshop Sessions 3A and 3B

Workshop Session 3A

Communicating Hazardous Weather Risks in the Urban Environment

Workshop co-chairs

Dr. David Krantz, Columbia University

Ms. Sandy Thomson, WANE-TV, Fort Wayne, IN

Workshop Session 3B

R&D Resources to Address Deficiencies in Modeling for Urban
Weather, ATD, Space Weather, and Climate Applications

Workshop co-chairs

CDR Stephanie Hamilton, USN, DTRA

Dr. Steve Hanna, Harvard School of Public Health

9:30–10:00 a.m.

Break

Thursday, September 23—continued

- 10:00–10:15 a.m. **Mr. Dave Jones**, Founder, President & CEO, StormCenter Communications, Inc., and President, Foundation for Earth Science
Increasing the Environmental I.Q. of America through innovative agency and media partnerships
- 10:15–10:30 a.m. **Dr. Richard D. Rosen**, Assistant Administrator, Office of Oceanic and Atmospheric Research, NOAA
R&D to Meet Urban Weather and Climate Needs
- 10:30–10:45 a.m. **Ms. Chris Elfring**, Director, Board on Atmospheric Sciences and Climate,
National Academy of Sciences
Challenges in Making Weather and Climate Information Useful in Decision Making
- 10:45–11:00 a.m. Summaries from Panel Moderators Mr. Robert Dumont, OFCM
- 11:00–11:20 a.m. Summaries from Workshop Co-Chairs Lt. Col. Robert Rizza, OFCM
- 11:20 a.m.–12:00 p.m. **Dr. Elbert W. (Joe) Friday**, WeatherNews Professor of Meteorology and Founding Director of the Sasaki Applied Meteorology Research Institute, University of Oklahoma
Dr. Paul D. Try, Senior Vice President, Science and Technology Corporation
Forum Outcomes
- 12:00–12:10 p.m. **Ms. Margaret McCalla**, Senior Staff Meteorologist, OFCM
Next Steps
- 12:10–12:25 p.m. **Mr. Samuel P. Williamson**, Federal Coordinator for Meteorological Services and Supporting Research
Closing Comments and Forum Adjournment